

Receiving Report

Date: 12/10/29
 Supplier: 74x56wh

Batch No: M123483
 Dart P/O: 18220

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☐ No ☒
 QC6 Inspection: 14 12/10/29 N/A ☐
 Work Order: 8-89 N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments
	water Olet 3075	600	0	0	600	

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 12/10/29
 Date: [Signature]
 Received/Costing: [Signature]
 Initial: [Signature]

Location _____

Purchase Order Receipt Listing

Monday, October 29, 2012 7:46:47 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18225 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO18225	1	~	M6061T6R0.375	f	10/30/2012 24.0000	10/29/2012 DESJ02	24.0000	\$1.06	0.0000	0 0	\$25.43
CAD	No		6061-T6 Round Bar .375"	f	24.0000	DESJ02		\$25.43	0.0000	0	
			123483								2
	2		M6061T6R0.500	f	10/30/2012 24.0000	10/29/2012 DESJ02	24.0000	\$1.22	0.0000	0	\$29.29
	No		6061-T6 Round Bar .500"	f	24.0000	DESJ02		\$29.29	0.0000	0	
			123483								2
	3		M6061T6R0.563	f	10/30/2012 204.0000	10/29/2012 DESJ02	204.0000	\$0.62	0.0000	0	\$126.11
	No		6061-T6 ROUND BAR .563	f	204.0000	DESJ02		\$126.11	0.0000	0	
			123483								0
	4		M6061T6R1.000	f	10/30/2012 12.0000	10/29/2012 DESJ02	12.0000	\$2.46	0.0000	0	\$29.50
	No		ROUND BAR 1.00"	f	12.0000	DESJ02		\$29.50	0.0000	0	
			123483								1
	5		M6061T6R1.250	f	10/30/2012 12.0000	10/29/2012 DESJ02	12.0000	\$3.05	0.0000	0	\$36.62
	No		6061-T6 Round Bar 1.250	f	12.0000	DESJ02		\$36.62	0.0000	0	
			123483								1
	6		M6061T6R1.500	f	10/30/2012 12.0000	10/29/2012 DESJ02	12.0000	\$4.41	0.0000	0	\$52.89
	No		6061-T6 Round Bar 1.50	f	12.0000	DESJ02		\$52.89	0.0000	0	
			123483								1
	7		M6061T6S.032	sf	10/30/2012 384.0000	10/29/2012 DESJ02	384.0000	\$2.22	0.0000	0	\$854.36
	No		6061-T6 Sheet 0.032"	sf	384.0000	DESJ02		\$854.36	0.0000	0	
			123483								1
	8		M304B0.250X4.000	f	10/30/2012 48.0000	10/29/2012 DESJ02	48.0000	\$7.60	0.0000	0	\$364.73
	No		304 BAR .250 x 4.00	f	48.0000	DESJ02		\$364.73	0.0000	0	
			123483								1

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
<div> <div>Total Received Quantity:</div> <div>Total Qty to Inspect (PO U/M):</div> <div>Total Reject Quantity:</div> <div>Total Receipt Value:</div> <div>Total Balance Due Quantity:</div> </div>											720,0000 0.0000 0.0000 \$1,518.93 0.0000

B I L L O F L A D I N G

No: PEC 792258

Ship Date 26oct12 at 9:09 From PFW

Probill Via VI TRANSFER

FOB COMCORD

Trt PREPAID

Route 0 - 0 Manifest

Trailer

Slp STAN IVERS (905-532-1350)

Sold To: (20115)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Ship From:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5G6

Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)

DART AEROSPACE

1270 ABERDEEN ST

HAWKESBURY, ON K6A 1K7

Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-502927- 1 Your PO # 18225

ALUMINUM ROUND BAR 6061-T6511

.375" DIA X 144.0000"

Heat Number 112051211B

Tag No 118223

Quantity 24 FT

PCS 2

WT LBS 3

MTR

2) Our Order PEC-502927- 2 Your PO # 18225

ALUMINUM ROUND BAR 6061-T6511

.50" DIA X 144.0000"

Heat Number 17201

Tag No 118224

Quantity 24 FT

PCS 2

WT LBS 6

MTR

3) Our Order PEC-502927- 3 Your PO # 18225

ALUMINUM ROUND BAR 6061-T6511

.562" DIA X 144.0000"

Heat Number 201207091

Tag No 118225

Quantity 204 FT

PCS 17

WT LBS 61

MTR

4) Our Order PEC-502927- 4 Your PO # 18225

ALUMINUM ROUND BAR 6061-T6511

1.00" DIA X 144.0000"

Heat Number 40961 130

Tag No 118226

Quantity 12 FT

PCS 1

WT LBS 12

MTR

5) Our Order PEC-502927- 5 Your PO # 18225

ALUMINUM ROUND BAR 6061-T6511

1.250" DIA X 144.0000"

Heat Number 40964 105

Tag No 118227

Quantity 12 FT

PCS 1

WT LBS 17

MTR

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE RAPPORTÉES IMMÉDIATEMENT
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
 RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

DATE

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

Page: 2 ...Continued

TOTAL ITEMS (1-7) 1 BDL G.W. 286 LBS

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.
ATTN: CHANTAL/LINDA
** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

Heat Number
112051211B
201207091
40961 130
40964 105
838388
Z00262042

*** Chemical Analysis ***

10/1/25

TOTAL: Tags 7 PCS 28 LBS 288

Quantity 48 FT PCS 4 MTR Wt LBS 163

7) Our Order PEC-502927- 7 Your PO # 18225
STAINLESS STEEL FLAT BAR 304L SLIT/EDGED
Heat Number 838388
Tag No 118229

Quantity 12 FT PCS 1 MTR Wt LBS 26

6) Our Order PEC-502927- 6 Your PO # 18225
ALUMINUM ROUND BAR 6061-T6511
Heat Number Z00262042
Tag No 118228

B I L L O F L A D I N G

Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033
Ship To: (1) DART AEROSPACE
Ship Date 26oct12 at 9:09 from PFW
No: PEC 792258
Via VI TRANSFER
FOB COMCORD
Route 0-0 Manifest
Vehicle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115) DART AEROSPACE

B I L L O F L A D I N G

11/10/26

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ETRE
RAPPORTÉES IMMÉDIATEMENT
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

12/11/26

Page: 1 ... Continued

TOTAL OF 1 SKID GR.W. 324 LBS
*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT. ** 9:00 AM TO 4:00 PM ***

ADD ON TO 502927 SUR-CHARGE PAID
MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.
ATTN: CHANTAL/LINDA
** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

10/12/29

B I L L O F L A D I N G		1) Our order PEC-503042- 1 Your PO # 18225	
ALUMINUM SHEET 6061 T6		Heat Number	
.0320 Nom X 48.0000" X 144.0000"		Tag No	
		599936A2	
		118465	
		Quantity	
PCS		8	
Wt LBS		173	
		Tags	
		1	
		PCS	
		8	
		LBS	
		173	
TOTAL:		384.00 SFT	
		MTR	

Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033
Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053
Ship Date 29oct12 at 14:42 From PFW
No: PEC 792353
L A D I N G
Prohibit
Via VIM TRANSFER
FOB CONCORD
Route 0 - 0 Manifest
Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

PART NO.
".375" DIA X 1.44.0000"

PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-792258-001

260412

 $\mathbb{P}^1/\mathbb{A}^1$

CAN ART
ALUMINUM EXTRUSION INC.

Material Test Report

Ship To: ThyssenKrupp Materials NA

Concord, ON L4K 5C6

Concord, ON L4K 5C6

Our Order: 386184 - 3 Cust P.O.: PEC-239667

Die: ES05553 Part: 05553-000-144

Alloy Temper: 6061 T6511 Description: .375

Print Date: 6/19/12

Chemical Composition Range									
6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach OtherTotal
Min	0.40	0.15	0.15	0.8	0.04	0.35	0.25	0.15	0.05
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.15

Mechanical Properties							
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield	2% offset	Elongation 2" gage length
130414	12051211B	A11	6/13/12	43.00	37.62		10.8

Applicable Specifications ASTM B221-08 QQ-A200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Air Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Air assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Air within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:

Evan Eng, Quality Assurance Mgr.

Signed by:

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

THYSSENKRUPP MATERIALS NA

PO/Ref 18225

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
PART NO. .50" DIA X 144.0000"

CAN ART
ALUMINUM EXTRUSION INC.

Material Test Report

Manifest: 246680

Ticket: 5262345

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Our Order: 386006 - 7 Cust P.O.: 239513

Die: ES05233 Part: 05233-000-144

Alloy Temper: 6061 T6511 Description: .500

Print Date: 6/19/12

Chemical Composition Range									
6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other/Each
Min	0.40	0.15		0.8	0.04		0.25	0.15	0.05
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.15
Other/Total									

Mechanical Properties									
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield	2% Offset	Elongation 2" gage length	Strength ksi	
130447	17201	A11	6/14/12	40.94	38.27	11.3			

Applicable Specifications ASTM B221-08 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:

Evan Eng, Quality Assurance Mgr.

PO/Rel 18225

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
149203	3

BILL TO

ThyssenKrupp Materials NA

SHIP TO

ThyssenKrupp Materials NA PEC

Quantity Certified 1,332 lbs 380 pcs

MANIFEST NUMBER

158335

CUSTOMER PO

PEC-238591

CUSTOMER PART NUMBER

RD0370

DIE NUMBER

RD0370

ALLOY / TEMPER

6061-T6511

DESCRIPTION

Lightning Rod Tile 0.562 + .004/- .003

DATE OF SHIPMENT

5/2/2012

SALESPERSON

David Schroeder

CERTIFICATION

ASTM-B221-12 No Stencil

SPECIFICATION

AMS-QQA-200/8

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA from ingot melted and cast in the United States or Canada.

Mechanical Properties

Tests Lot No.

1 201207091
2 201207091

Test Date

04/24/12
04/24/12

Ultimate Tensile
Strength (KSI)

50.6
50.7

Yield Strength
(KSI)

48.9
48.7

Percent
Elongation

14.9
13.6

12/10/12
DAS

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
										Each	Total
041425	6061	0.76	0.35	0.34	0.09	0.87	0.10	0.06	0.02	0.05	0.15
041523	6061	0.77	0.39	0.32	0.09	0.86	0.10	0.06	0.02	0.05	0.15

Melt Source:
United States of America

Print Date: 5/2/2012

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

260012 Pg 1/2

BL PEC-792258-004

Signed by:

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"

PART NO.

KAISER
ALUMINUM
FABRICATED PRODUCTS

CERTIFIED TEST REPORT
<http://online.kaiseraluminum.com>

CUSTOMER PO NUMBER: PEC-241956-11		CUSTOMER PART NUMBER: 015246-2		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 1.000+/- .004	
KAISER ORDER NUMBER: 627967	LINE ITEM: 011	SHIP DATE: 09/21/2012	KAISER LOT NUMBER: 40961 130	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 12020.000 LB	QUANTITY: 92.000 PCS	B/L NUMBER: 604480	DIA/DIA/T/H/K/S: WIDTH: LENGTH: 12.000 FT		
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
40961 130	0001	1	49.4	46.2	18.5	RE	95	N/A
40961 130	0001	10	54.0	50.3	15.9	RE	95	N/A
40961 130	0001	2	43.9	39.6	18.4	RE	95	N/A
40961 130	0001	3	47.1	43.6	18.3	RE	95	N/A
40961 130	0001	4	49.0	45.8	16.2	RE	95	N/A
40961 130	0001	5	47.1	43.4	16.4	RE	95	N/A
40961 130	0001	6	55.3	51.6	15.9	RE	95	N/A
40961 130	0001	7	51.8	47.7	16.0	RE	95	N/A
40961 130	0001	8	52.5	48.2	15.9	RE	95	N/A
40961 130	0001	9	52.1	47.7	15.9	RE	95	N/A
40961 130	0001	95	52.1	47.7	15.9	RE	95	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H42638	.74	.41	.34	.39	.99	.08	.06	.02	.01	.03	.00	.04	.09

Applicable Requirements:

PER ASTM-B221-12, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 (2007) UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELTAVIUM MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes
MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

DAS
19

12/10/29

Plant Serial: 00060883
Kaiser Order Number: 627967
Line Item: 011

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

PO/Rel 18225

BL REC-792258-004

260412 Pg 2/2

Signed by:

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"

PART NO.

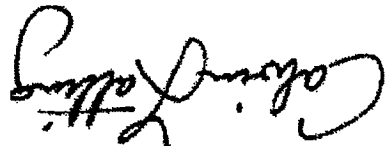
KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

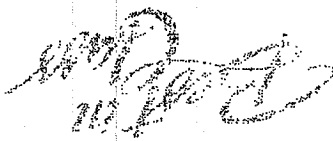
CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Lattin, Quality & Technology Manager



CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>



Plant Serial: 00060883
Kaiser Order Number: 627567
Line Item: 011

Page 2 of 2

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results
Pg 1/2

PO/Rd 18225
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6511
1.250" DIA X 144.0000"

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://online.kaiseraluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-241687-2		SHIP DATE: 09/14/2012		KAISER LOT NUMBER: 40964-105		ALLOY: T6511B		TEMPER: 12.000 FT	
CUSTOMER PART NUMBER: R76/STK		SHIP DATE: 09/14/2012		KAISER LOT NUMBER: 40964-105		ALLOY: T6511B		TEMPER: 12.000 FT	
PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 1.250+/- .005		SHIP DATE: 09/14/2012		KAISER LOT NUMBER: 40964-105		ALLOY: T6511B		TEMPER: 12.000 FT	
SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		SHIP TO: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
40964-105	0001	1	52.4	47.4	12.5	92	N/A	N/A
40964-105	0001	10	51.1	47.2	12.5	92	N/A	N/A
40964-105	0001	2	50.8	46.0	12.8	92	N/A	N/A
40964-105	0001	3	52.8	48.3	12.3	92	N/A	N/A
40964-105	0001	4	53.4	49.3	12.5	92	N/A	N/A
40964-105	0001	5	52.8	49.0	12.8	92	N/A	N/A
40964-105	0001	6	57.3	54.4	12.3	92	N/A	N/A
40964-105	0001	7	57.2	54.1	12.5	92	N/A	N/A
40964-105	0001	8	54.4	50.7	12.8	92	N/A	N/A
40964-105	0001	9	50.7	47.0	12.3	92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
442805	.74	.39	.29	.10	.95	.10	.09	.02	.01	.01	.00	.01	.03

Applicable Requirements:

PER ASTM-B221-12, STENCILED ASME-SB221 1998 SEC II PER AMS-QQ-A-200/8 (2007) UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes
MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA

12/10/29
14
0-89

Plant Serial: 00059695
Kaiser Order Number: 627185
Line Item: 002

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

PO/Rd 18225

BL PBC-792258-005

Signed by:

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

ALUMINUM ROUND BAR 6061-T6511
1.250" DIA X 144.0000"
PART NO.

KAISER
ALUMINUM
FABRICATED PRODUCTS

Boyd

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Letting, Quality & Technology Manager

Calvin Letting

Plant Serial: 00059695
Kaiser Order Number: 627185
Line Item: 002

Page 2 of 2

Plant Serial: 00060881
Kaiser Order Number: 627967
Line Item: 010

Page 1 of 2

12/10/29
DAS
14
89

MANUFACTURED IN USA MELTED IN USA

Miscellaneous Notes

PER ASTM-B221-12, STENCILED ASME-SB221 1998 SECT II PER AMS-QQ-A-200/8 (2007) UNS#
A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM
MECHANICAL PROPERTIES AS FOLLOWS: UTS - 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION
= 13.0% MIN

Applicable Requirements:

LIMITS	SI	Fe	Cu	Mn	Mg	Cr	Zn	Al	Pb	Bi	Zr	Ca	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.05	0.00	0.00	NA	NA	NA	0.00	0.00
	1.01852	.75	.33	.28	.09	.93	.09	.03	.03	.00	.00	.01	.03

Chemical Composition (wt%), Aluminum Remainder

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00262042	0001	1	52.6	50.3	16.9	RE	95	N/A
Z00262042	0001	2	51.5	48.8	15.6	RE	92	N/A
Z00262042	0001	3	54.4	52.2	16.7	RE	95	N/A
Z00262042	0001	4	51.5	48.6	15.9	RE	93	N/A
Z00262042	0001	5	52.3	50.0	16.2	RE	93	N/A
Z00262042	0001	6	54.3	52.1	16.6	RE	94	N/A
Z00262042	0001	7	51.1	48.3	16.4	RE	92	N/A
Z00262042	0001	8	52.8	50.7	16.8	RE	94	N/A
Z00262042	0001	9	53.5	51.2	16.4	RE	95	N/A
Z00262042	0001	10	51.9	49.6	16.7	RE	94	N/A
Z00262042	0001	11	52.8	50.6	16.3	RE	95	N/A
Z00262042	0001	12	51.9	49.1	16.2	RE	90	N/A

Actual Physical Properties

THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA	
SHIP TO:	2094.000 LB	QUANTITY:	84.000 PCS
WEIGHT SHIPPED:	627967	DATE:	09/21/2012
KAISER ORDER NUMBER:	010	SHIP DATE:	09/21/2012
CUSTOMER PO NUMBER:	PEC-241956-10	KAISER LOT NUMBER:	Z00262042
CUSTOMER PART NUMBER:	ALRD00339	ALLOY:	6061
PRODUCT DESCRIPTION:	KAISERSELECT PRECISION ROD 1.500+/- .005	TEMPER:	T6511B
		LENGTH:	12.000 FT
		WIDTH:	
		DIAM/DA/FTH/KNS:	
		SOLD TO:	

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

THYSSENKRUPP MATERIALS NA

PO/Rd 18225

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

BL PEC-79258-006

26Oct12
Pg 1/2

Certificate of Mill Test Results

ALUMINUM ROUND BAR 6061-T6511
1.50" DIA X 144.0000"
PART NO.

DART AEROSPACE

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

260412
Pg 2/2

BL PFC-792258-006

Signed by:

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

DART AEROSPACE
ALUMINUM ROUND BAR 6061-T6S11
1.50" DIA X 144.0000"
PART NO.

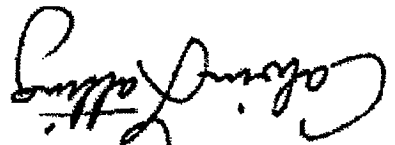
KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Lattin, Quality & Technology Manager



CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

Plant Serial: 00060881
Kaiser Order Number: 627967
Line Item: 010

Page 2 of 2

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE
STAINLESS STEEL PLAT BAR 304L SLIT/EDGED
PART NO.
".250" X 4.00" X 144.0000"

PHOENIX TUBE COMPANY, INC.
Manufacturer of Stainless Ornamental and Structural
Tubing

Sold to: THYSSENKRUPP MATERIAL, NA
2821 LANGSTAFF ROAD
CONCORD ON L4K
Ship to: THYSSENKRUPP MATERIAL, NA
2821 LANGSTAFF ROAD
CONCORD CAN
ON L4K

CUSTOMER ORDER# PEC-242141
CUST REF NBR:
DATE SHIPPED: 09/24/12
SIZE: 4" X 1/4" HRAP
SOURCE: USA D
VENDOR: ALS
Specification:

CHEMISTRY THIS COLUMN:
ASTMA276-10
ASTM A276-08 COND. A
ASTMA479-11
ASTM A479-10
ASTM A484-08
NO WELD REPAIR
ASTM A480-11
ASTM A484-10
CORROSION OK, HRAP
ASTMA262, PRACTICE E
ASTMA240-11a
ASTM A240-11
MILS 5059D AMEND 3
AMS 5639H & AMS 5647J
ASTMA480-11
NACE MR0175/01 / MR0103
TYPE 304L/304 DUAL CERTIFIED
UNS# 30400 / 30403
ASTM A666-10
AMS5511H/AMS5513J
Q&S-766D, COND. A

Phone# 6699444
ORDER# 286850
QTY SHIPPED: 630.0
GRADE: 304L
HEAT# 838388
TEST REPORT# TR010563
Report Date: 08/30/12
NO WELD: BAR
Ext:

C	.013	MN	1.52	P	.031	S	.013	SI	.40	CR	18.23	NI	8.09	MO	.39	CU	.44	CO	0	N2	.07	TI	0
---	------	----	------	---	------	---	------	----	-----	----	-------	----	------	----	-----	----	-----	----	---	----	-----	----	---

Chemical Analysis

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICINITY
OF OUR PROCESSING LINES. WE ARE NOT PRESENTLY AWARE OF ANY MERCURY CONTAMINATION.
MATERIAL HAS BEEN HEATED TO A MINIMUM OF 1800 DEG. F AND IS SUBSEQUENTLY COOLED
RAPIDLY TO PREVENT CARBIDE PRECIPITATION.

	YIELD		TENSILE		OTHER	
Hardness	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 88	47900	0	91000	0	55	64

Physical Analysis

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS.
PHYSICAL PROPERTIES ARE DETERMINED WHILE MATERIAL IS IN STRIP FORM.
Melted & Manufactured in the USA. FAR BAA complies, DFARS BAA complies, FAR TAA complies

CERTIFIED BY:

1185 WIN DR, BETHLEHEM, PA., 18017 - (610) 866-5337
FAX NUMBER: 810-865-4073

12/10/29
14
9-98

KAISER
ALUMINUM
 TRENTWOOD WORKS - SPOKANE, WA 99215
 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
 4278723

SHIP TO:
 COPPER & BRASS SALES
 905 CARLOW DRIVE
 UNIT D
 BOLINGBROOK, IL 60480

SOLD TO:
 COPPER & BRASS SALES
 ATTN: ACCOUNTS PAYABLE
 P.O. Box 5116
 SOUTHFIELD, MI 48086

CUSTOMER PO NUMBER:		WORK PACKAGE:		CUSTOMER PART NUMBER:		SHIP RUN/LOAD:		GOVT CONTRACT NUMBER:	
6400150915		ALFLR01643		102451/17					
KAISER ORDER NO:		LINE ITEM:		SHIP DATE:		ALLOY:		CLAD:	
1140068		1		12-OCT-2012		6061		T6	
WEIGHT SHIPPED:		QUANTITY:		TRUCK BL #:		GAUGE:		DIAMETER/WIDTH:	
10807 LB		493 PCS EST.		2039250		0.0320 IN		48.000 IN	
								LENGTH:	
								144.000 IN	
								(3657.6 MM)	
								HT Flat Sheet	
								PRODUCT DESCRIPTION:	

MHU 1627545: LOT 599936A2: 38 pieces;
 MHU 1627689: LOT 599936A2: 175 pieces;
 MHU 1629089: LOT 610815A3: 104 pieces;
 MHU 1629095: LOT 610815A3: 175 pieces;

Certified Specifications

AMS 4027/RevN
 ASME SB 209/Rev2004
 ASTM B 209/Rev10

Test Code: 1511
 Test Results

Lot: 599936A2 Cast 880 Drop 05 Ingot 1 Melted in USA

(ASTM B8/B557)

(EN 2002-1)

Tensile: Temper

Dir / # Tests

Ultimate KSI (MPa)

Yield KSI (MPa)

Elongation %

LT / 2 (Min:Max)

48.8 : 48.4

43.8 : 44.3

11.2 : 12.0

(ASTM E1251)

Chemistry:

SI

FE

CU

MN

MG

CR

ZN

TI

V

ZR

TOT

OTHER

Actual(wt%)

0.75

0.5

0.34

0.06

1.0

0.16

0.17

0.02

0.01

0.00

0.05

0.05

DAS
 14
 12/16/29

12/16/29

From: Copper and Brass Sales
 Cust: THYSSENKRUPP MATERIALS NA - ECAD Del: 2402128040
 PO: PFC - 243092
 Date: 10/24/2012

Mgt: 173.408 LB

Part:

James H Baker

KAISER
ALUMINUMTrentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

Lot: 610815A3 Cast B80 Drop 14 Ingot 3

(ASTM B8/B557)

(EN 2002-1)

Tensile:

Temper
T6Dir / # Tests
LT / 2 (Min:Max)Ultimate KSI (MPa)
45.1 : 45.4
(311 : 313)Yield KSI (MPa)
39.5 : 39.7
(272 : 274)Elongation %
11.7 : 11.7

(ASTM E1251)

Chemistry:

Actual(wt%)

SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	TOT
0.75	0.5	0.31	0.06	1.0	0.18	0.16	0.02	0.01	0.00	0.04	

ALLOY LIMITS

SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.05	0.00	0.05	

TEST NOTES

6061 sheet or plate certified to AMS 4025, AMS 4026, or AMS 4027 also meets applicable requirements of AMS-QQ-A-250/11.

Rev. A.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that material shipped under this order was melted in the United States of America or a qualifying country and tested and found in conformance with the requirements of the applicable specification requirements as indicated herein. For material thickness outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. All tests which are not listed herein shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC Laboratory. The recording of false, fictitious or fraudulent statements or entries on this certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

JAMES HEMENWAY, LABORATORIES SUPERVISOR

Page 2 of 2

From: Copper and Brass Sales

Cust: THYSSSENKRUPP MATERIALS NA - ECAD Del: 2402128040

PO: PEC - 243092

Wgt: 173.408 LB

Date: 10/24/2012

James Hemenway

DART aerospace
 Dart Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Tel: 613 632 9577
 Fax: 613 632 1053

PURCHASE ORDER
 Purchase Order ID PO18225
 Purchase Order Date 10/23/12
 PO Print Date 10/23/12
 Page Number 1 of 4

Order From :
 THYSSENKRUPP MATERIALS CA LTD
 O/A VPK METAL-C/O T27540/PO BOX 4275,POSTAL "A"
 TORONTO, ON M5W 5V8
 CA

Contact Name
 Vendor Phone 905 669 9444
 Vendor Fax 905 738 9033
 Vendor Account Nbr
 Buyer
 Requisition Nbr
 Tax Resale Nbr
 Terms
 Currency
 FOB
 Chantal Lavoie
 10127-2607
 Net 30
 CAD
 Destination-Collect

Ship To :
 DART AEROSPACE LTD
 1270 ABERDEEN
 HAWKESBURY, ON K6A 1K7
 CANADA

FAKED

Line Nbr	Reference	Description/ Mfg ID	Reg Date/ Taxable	Reg Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M6061T6R0.375	6061-T6 Round Bar .375"	10/30/12	24.00	Yours pdd	\$1,0417	\$25.00
Special Instr:							
6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8) OR AMS 4160) OR ASTM B211 OR ASTM B221							
2	M6061T6R0.500	6061-T6 Round Bar .500"	10/30/12	24.00	Yours pdd	\$1,2000	\$28.80
Special Instr:							
6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8) OR AMS 4160) OR ASTM B211 OR ASTM B221							

10/23/12

Change Nbr: 2
 Change Date: 10/23/12
 Certificate of Conformity of Material
 No substitution or deviation without
 consent.
 Certificate required - YES
 NO

DART
aerospace

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO18225


Purchase Order Date 10/23/12
PO Print Date 10/23/12

Order From : THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL-C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name	Vendor Phone	Requisition Nbr	Buyer
CA	905 669 9444	10127-2607	Chantal Lavoie
Vendor Fax	905 738 9033	Tax Resale Nbr	
Vendor Account Nbr		Terms	
		Currency	
		FOB	
		Destination-Collect	

3	M6061T6R0.563	012	6061-T6 ROUND BAR	10/30/12	Yes	204.00	Yours ppd	\$0.6078	\$123.99
Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8) OR AMS 4160) OR ASTM B211 OR ASTM B221									
4	M6061T6R1.000	013	ROUND BAR 1.00"	10/30/12	Yes	12.00	Yours ppd	\$2.4167	\$29.00
Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8) OR AMS 4160) OR ASTM B211 OR ASTM B221									
5	M6061T6R1.250	013	6061-T6 Round Bar 1.250	10/30/12	Yes	12.00	Yours ppd	\$2.5000 3.00	\$30.00
Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8) OR AMS 4160) OR ASTM B211 OR ASTM B221									

10/23/12



DART
 aerospace
 Dart Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Tel: 613 632 9577
 Fax: 613 632 1053

PURCHASE ORDER
 Purchase Order ID PO18225
 Purchase Order Date 10/23/12
 PO Print Date 10/23/12
 Page Number 3 of 4

Order From :
 THYSSENKRUPP MATERIALS CA LTD
 O/A VPK METAL-C/O T27540/PO BOX 4275,POSTAL"A"
 TORONTO, ON M5W 5V8
 CA

Contact Name	Vendor Phone	Vendor Fax	Vendor Account Nbr
Chantal Lavoie	905 669 9444	905 738 9033	
Buyer	Requisition Nbr	Tax Resale Nbr	Terms
		10127-2607	Net 30
FOB	Currency	Destination-Collect	

6	M6061T6R1.500	6061-T6 Round Bar 1.50	10/30/12	Yes	12.00	Yours ppd	\$4.3333	\$52.00
---	---------------	------------------------	----------	-----	-------	-----------	----------	---------

7	M6061T6S.032	6061-T6 Sheet 0.032"	10/30/12	Yes	384.00	Yours ppd	\$2.1875	\$840.00
Special Instr: 6061-T6 (OR 6061-T6S1/ T6S10/ T6S11/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8OR AMS-QQ-A-200/8)OR AMS 4160) OR ASTM B211 OR ASTM B221								
Special Instr: MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 40327 OR ASTM B209								

8	M304B0.250X4.000	304 BAR .250 x 4.00	10/30/12	Yes	48.00	Yours ppd	\$7.4708	\$358.60
---	------------------	---------------------	----------	-----	-------	-----------	----------	----------

Special Instr: MATERIAL: AISI 304/316 SS BAR OR
 AISI 304/316 SS PLATE
 AS PER ASTM A276 OR ASTM A240
 NOTE: AISI 303 NOT ACCEPTABLE

11/1/12

DART aerospace
 Dart Aerospace Ltd.
 1270 Aberdeen Street
 Hawkesbury, ON K6A 1K7
 Tel: 613 632 9577
 Fax: 613 632 1053

PURCHASE ORDER
 Purchase Order ID P018225

Purchase Order Date 10/23/12
 PO Print Date 10/23/12

Page Number 4 of 4

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD
 O/A VPK METAL- C/O T27540/PO BOX 4275, "POSTAL" A"
 TORONTO, ON M5W 5V8
 CA

Contact Name	905 669 9444	Vendor Phone
Vendor Fax	905 738 9033	Vendor Account Nbr

Buyer	Chantal Lavoie
Requisition Nbr	10127-2607
Tax Resale Nbr	Net 30
Terms	CAD
Currency	Destination-Collect
FOB	

304 STAINLESS FLAT	10/30/12	Yes	Each	600.00	Yours ppd	\$4.0500	\$2,430.00
BAR .125" X 4.00" X 14"							

Deliver To: WATER JET

PO Total:

\$3,917.39

MATERIAL CERTIFICATION
 READ UPON DELIVERY

W
 CX

Change Nbr: 2
 Change Date: 10/23/12
 No substitution or deviation without
 consent.
 Certificate of Conformity or Material
 Certification required - YES NO